

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P483481

Luminaire Tested: **IFLD-M-SA4B-722-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483481
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

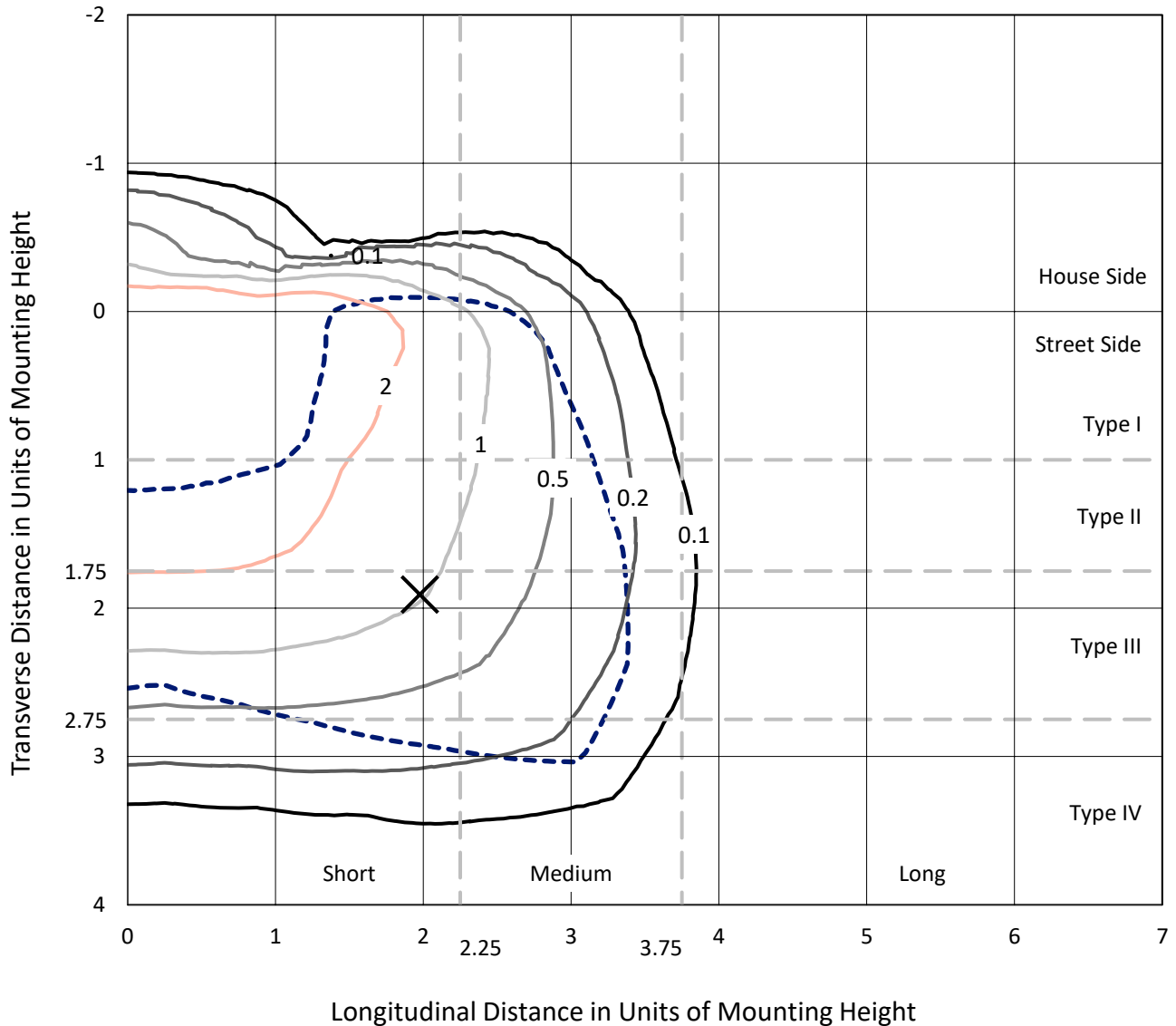
Lumens per Lamp: N/A
Luminaire Lumens: 12413 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

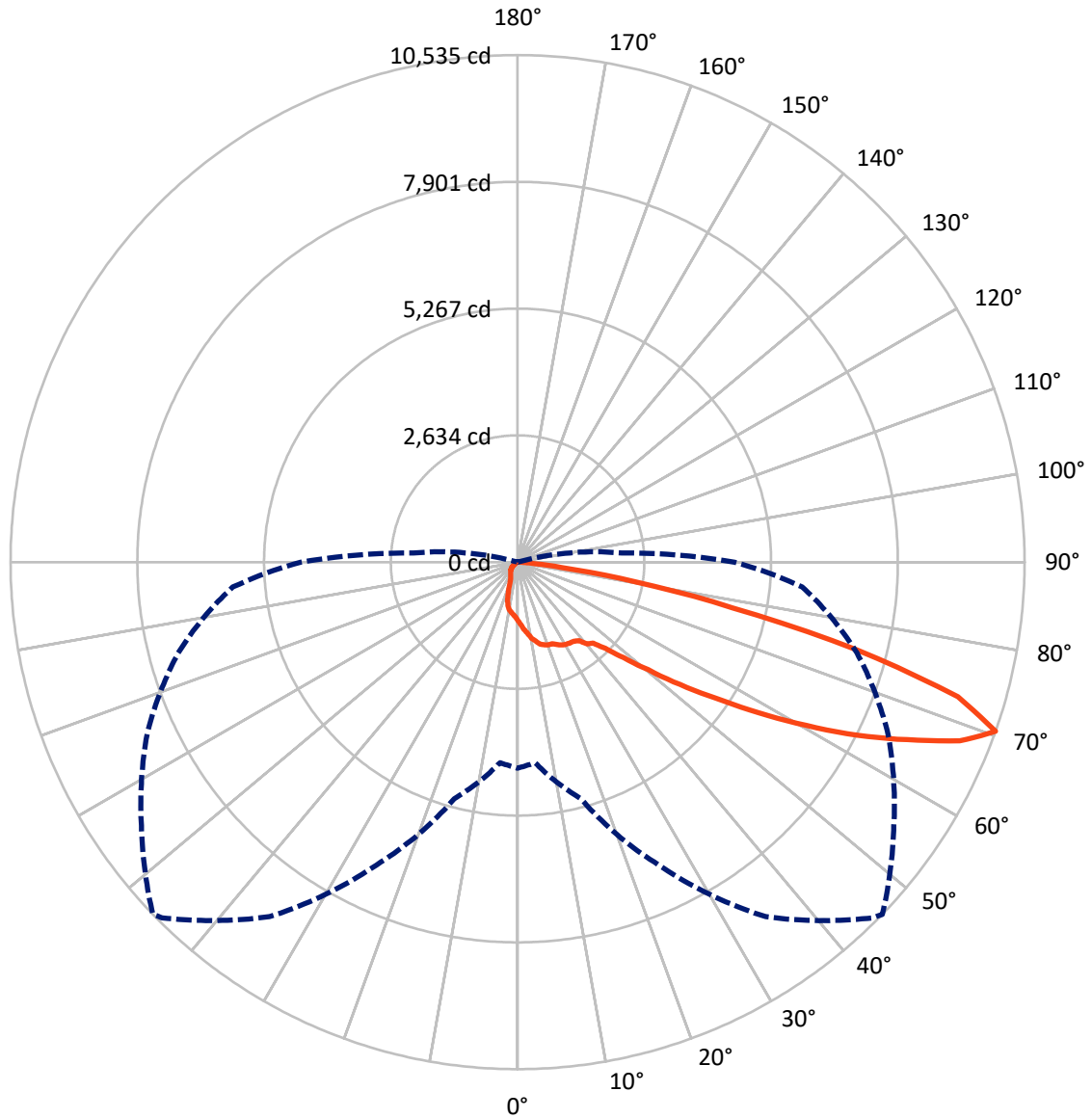
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1235.1	0.0	1235.1
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	11177.9	0.0	11177.9
	% Fixture	90.0	0.0	90.0
Total	Lumens	12413.0	0.0	12413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	1.0
10°-20°	366.9	3.0
20°-30°	587.8	4.7
30°-40°	838.9	6.8
40°-50°	1448.6	11.7
50°-60°	2773.5	22.3
60°-70°	4107.1	33.1
70°-80°	2034.2	16.4
80°-90°	134.4	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12413.0	100.0
0°-180°	12413.0	100.0

Coefficient of Utilization



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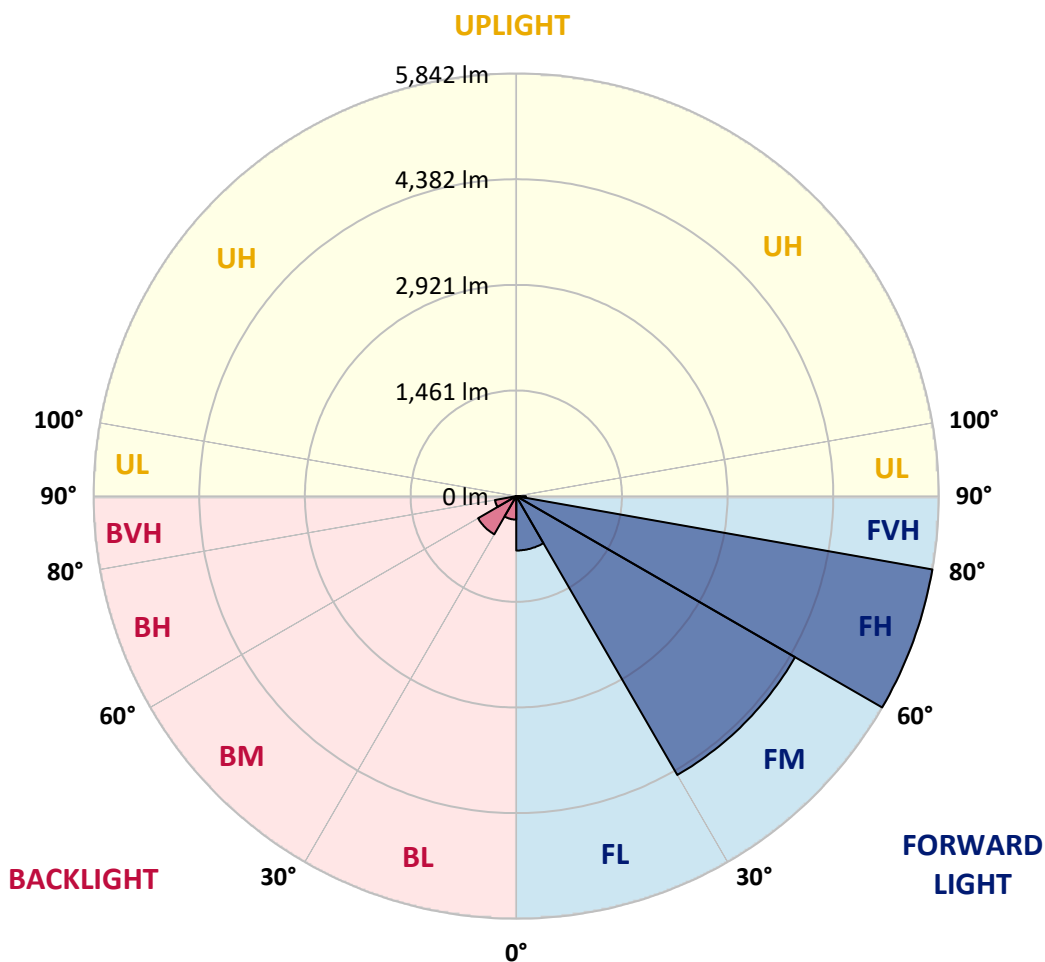
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	751.7	6.1			
FM (30°-60°)	4451.3	35.9			
FH (60°-80°)	5842.2	47.1			G3/7500
FVH (80°-90°)	132.7	1.1			G2/225
BL (0°-30°)	324.5	2.6	B1/500		
BM (30°-60°)	609.8	4.9	B1/1000		
BH (60°-80°)	299.1	2.4	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6
2.5°	1359.7	1350.8	1336.5	1331.1	1316.8	1309.7	1299.0	1293.6	1274.0	1254.3	1241.8
5°	1525.9	1504.5	1511.6	1490.2	1443.7	1406.2	1404.4	1363.3	1318.6	1282.9	1234.7
7.5°	1693.8	1676.0	1649.2	1618.8	1567.0	1511.6	1495.5	1456.2	1393.7	1331.1	1266.8
10°	1820.7	1808.2	1785.0	1742.1	1670.6	1608.1	1609.9	1543.8	1477.7	1406.2	1318.6
12.5°	1899.3	1904.7	1870.7	1827.9	1765.3	1686.7	1684.9	1640.2	1565.2	1490.2	1386.5
15°	1977.9	1997.6	1945.8	1895.8	1815.3	1758.2	1768.9	1715.3	1642.0	1556.3	1441.9
17.5°	1990.5	1995.8	1985.1	1911.8	1852.9	1804.6	1806.4	1770.7	1715.3	1622.4	1524.1
20°	1969.0	1965.4	1952.9	1899.3	1860.0	1831.4	1833.2	1824.3	1793.9	1718.9	1584.9
22.5°	1906.5	1906.5	1890.4	1854.7	1836.8	1863.6	1842.1	1876.1	1843.9	1799.3	1688.5
25°	1856.4	1876.1	1867.2	1843.9	1851.1	1886.8	1897.5	1929.7	1924.3	1869.0	1760.0
27.5°	1910.0	1886.8	1892.2	1865.4	1892.2	1945.8	1951.1	1974.4	1972.6	1927.9	1824.3
30°	1945.8	1967.2	1926.1	1867.2	1895.8	1986.9	1983.3	2013.7	2028.0	1974.4	1885.0
32.5°	2060.1	2042.3	2008.3	1929.7	1933.3	1985.1	2001.2	2040.5	2049.4	2017.3	1944.0
35°	2294.2	2267.4	2119.1	2001.2	1983.3	2008.3	2019.0	2095.9	2112.0	2076.2	2006.5
37.5°	2655.1	2594.4	2415.7	2154.8	2074.4	2069.1	2069.1	2170.9	2231.7	2149.5	2099.4
40°	3171.5	3085.7	2892.8	2438.9	2194.1	2215.6	2237.0	2292.4	2285.3	2231.7	2220.9
42.5°	3829.0	3762.9	3553.9	2916.0	2422.8	2315.6	2297.8	2372.8	2485.4	2463.9	2456.8
45°	4377.6	4381.1	4247.1	3569.9	2817.7	2546.1	2558.6	2615.8	2805.2	2789.1	2787.3
47.5°	4777.8	4727.8	4708.1	4200.7	3393.1	2983.9	2966.0	3005.3	3251.9	3353.7	3400.2
50°	5142.3	5108.3	5061.9	4813.5	4084.5	3532.4	3514.6	3518.1	3895.1	4038.1	4152.4
52.5°	5594.3	5637.2	5483.6	5331.7	4979.7	4245.3	4225.7	4156.0	4624.1	4820.7	4956.5
55°	6151.8	6071.4	5898.1	5976.7	5835.6	5015.4	4979.7	4897.5	5455.0	5537.2	5680.1
57.5°	6275.1	6214.4	6393.0	6671.8	6807.6	5919.5	5905.2	5756.9	6153.6	6078.6	6482.4
60°	6582.4	6598.5	6846.9	7400.8	7636.6	6963.0	6893.3	6632.5	6830.8	6845.1	7275.7
62.5°	6898.7	6861.2	7416.8	7949.3	8312.0	7951.1	7927.9	7409.7	7634.8	7452.6	8022.6
65°	6666.4	6723.6	7518.7	8410.3	9187.5	8917.7	8898.1	8158.3	8281.6	8054.7	8326.3
67.5°	5840.9	5724.8	6837.9	8199.4	9637.8	9930.8	9909.4	8974.9	8646.1	8051.1	7695.6
70°	4281.1	4181.0	5088.7	6943.4	8992.8	10449.0	10534.7	9543.1	8497.8	7300.7	5937.4
72.5°	2097.7	2099.4	2851.7	4708.1	7114.9	9523.4	9566.3	8749.8	7300.7	5381.7	3362.7
75°	620.0	627.2	1056.0	2308.5	4599.1	7232.8	7281.0	6641.4	5060.1	2780.2	1147.1
77.5°	226.9	226.9	350.2	866.6	2294.2	4565.2	4561.6	4077.4	2562.2	941.6	268.0
80°	117.9	123.3	182.2	353.8	993.4	2378.2	2467.5	1995.8	973.8	396.7	78.6
82.5°	48.2	53.6	100.1	182.2	477.1	834.4	913.0	782.6	423.5	276.9	35.7
85°	14.3	16.1	48.2	101.8	187.6	209.1	232.3	262.7	266.2	214.4	16.1
87.5°	1.8	1.8	19.7	33.9	41.1	44.7	51.8	51.8	135.8	150.1	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6
2.5°	1227.5	1218.6	1204.3	1172.1	1165.0	1141.7	1140.0	1118.5	1125.7	1111.4	1106.0
5°	1218.6	1198.9	1159.6	1134.6	1109.6	1093.5	1082.8	1073.8	1072.1	1064.9	1061.3
7.5°	1234.7	1207.8	1147.1	1107.8	1064.9	1050.6	1027.4	1025.6	1013.1	1000.6	1000.6
10°	1288.3	1240.0	1173.9	1107.8	1052.4	1005.9	952.3	913.0	898.7	866.6	870.2
12.5°	1331.1	1288.3	1191.8	1123.9	1039.9	934.5	816.5	725.4	682.5	641.4	657.5
15°	1391.9	1329.3	1225.7	1127.4	991.7	809.4	616.4	514.6	475.3	466.3	464.6
17.5°	1458.0	1391.9	1268.6	1118.5	893.4	625.4	453.8	394.9	402.0	412.7	411.0
20°	1531.3	1450.8	1300.8	1088.1	737.9	453.8	371.6	369.9	380.6	396.7	400.2
22.5°	1608.1	1538.4	1340.1	997.0	550.3	364.5	357.4	357.4	364.5	384.2	380.6
25°	1693.8	1600.9	1359.7	855.9	394.9	335.9	339.5	346.6	350.2	366.3	368.1
27.5°	1760.0	1670.6	1365.1	686.1	321.6	310.9	319.8	328.8	334.1	346.6	352.0
30°	1820.7	1758.2	1336.5	511.0	294.8	289.5	293.0	305.5	316.3	327.0	327.0
32.5°	1897.5	1808.2	1270.4	362.7	278.7	269.8	268.0	273.4	285.9	298.4	298.4
35°	1976.2	1892.2	1165.0	291.2	264.4	251.9	244.8	239.4	244.8	253.7	260.9
37.5°	2090.5	2019.0	1032.7	268.0	253.7	235.9	221.6	209.1	200.1	198.3	203.7
40°	2253.1	2162.0	863.0	251.9	241.2	219.8	198.3	176.9	157.2	144.7	146.5
42.5°	2499.7	2372.8	679.0	243.0	232.3	201.9	171.5	141.2	116.1	103.6	103.6
45°	2851.7	2651.6	498.5	234.1	221.6	180.5	141.2	105.4	80.4	73.3	75.0
47.5°	3382.3	2987.5	357.4	219.8	207.3	157.2	110.8	75.0	59.0	55.4	57.2
50°	4075.6	3385.9	278.7	203.7	189.4	132.2	82.2	55.4	46.5	44.7	46.5
52.5°	4802.8	3787.9	244.8	189.4	162.6	105.4	60.7	44.7	39.3	37.5	39.3
55°	5424.6	4047.0	212.6	168.0	130.4	78.6	48.2	39.3	33.9	28.6	28.6
57.5°	6053.5	4177.4	168.0	139.4	96.5	59.0	41.1	33.9	28.6	23.2	21.4
60°	6564.6	4270.4	119.7	103.6	67.9	46.5	35.7	30.4	23.2	17.9	16.1
62.5°	6900.5	4004.1	87.6	78.6	50.0	39.3	30.4	25.0	17.9	12.5	12.5
65°	6734.3	3636.1	67.9	55.4	37.5	30.4	25.0	17.9	12.5	7.1	5.4
67.5°	6042.8	2962.4	55.4	41.1	28.6	23.2	19.7	14.3	7.1	1.8	1.8
70°	4508.0	2170.9	44.7	30.4	23.2	17.9	14.3	8.9	3.6	1.8	0.0
72.5°	2465.7	1188.2	35.7	25.0	17.9	14.3	10.7	7.1	3.6	0.0	0.0
75°	814.8	316.3	26.8	17.9	10.7	8.9	7.1	5.4	1.8	0.0	0.0
77.5°	196.5	82.2	21.4	16.1	8.9	5.4	3.6	1.8	1.8	0.0	0.0
80°	60.7	33.9	16.1	10.7	7.1	5.4	1.8	0.0	0.0	0.0	0.0
82.5°	25.0	16.1	7.1	7.1	5.4	1.8	0.0	0.0	0.0	0.0	0.0
85°	12.5	8.9	5.4	3.6	3.6	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	3.6	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)